

Substitute for form 1449A/PTO (modified)

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets if necessary)

APR 02 2004

Page 1 of 2

Application Number	10/748562
Filing Date	December 30, 2003
First Named Inventor	Crawford, Gregory P.
Art Unit	Unknown
Examiner Name	Unknown
Attorney Case Number	59067US002

U.S. Patent Documents

Exam. Init.*	Cite No.	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code (if known)			
WPC	A1	US- 5,389,698	02-14-1995	Chigrinov et al	
WPC	A2	US- 5,838,407	11-17-1998	Chigrinov et al	
WPC	A3	US- 5,909,265	06-01-1999	Kim et al	
	A4	US-			
	A5	US-			

Foreign Patent Documents

Exam. Init.*	Cite No.	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	Translation (Check if yes)
		Ctry. Code				
	B1					
	B2					
	B3					

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Exam. Init.*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published
WPC	C1	NIKOLOVA, L. and TODOROV, T.; "Diffraction Efficiency and Selectivity of Polarization Holographic Recording", <i>Optica Acta</i> (1984); Vol. 31, No. 5; pp. 579-588
WPC	C2	ICHIMURA, K., et al; "Reversible Change in Alignment Mode of Nematic Liquid Crystals Regulated Photochemically by 'Command Surfaces' Modified with an Azobenzene Monolayer", <i>Langmuir</i> (1988); Vol. 4; American Chemical Society; pp. 1214-1216
WPC	C3	ICHIMURA, K., et al; "Reversible Alignment Change of Liquid Crystals Induced by Photochromic Molecular Films, ...", <i>Makromol. Chem., Rapid Commun.</i> (1989); Vol. 10; pp. 5-8
WPC	C4	GIBBONS, W.M., et al; "Surface-Mediated Alignment of Nematic Liquid Crystals with Polarized Laser Light", <i>Nature</i> (2 May 1991); Vol. 351; pp. 49-50
WPC	C5	SCHADT, M., et al; "Surface-Induced Parallel Alignment of Liquid Crystals by Linearly Polymerized Photopolymers", <i>Jpn. Journal of Applied Physics</i> (1992); Vol. 31; pp. 2155-2164
WPC	C6	SHANNON, P.J., et al; "Patterned Optical Properties in Photopolymerized Surface-Aligned Liquid-Crystal Films", <i>Nature</i> (7 April 1994); Vol. 368; pp. 532-533
WPC	C7	HASEGAWA, M., and TAIRA, Y.; "Nematic Homogeneous Alignment by Photo Depolymerization of Polyimide", <i>Conf. Record, 14th International Display Research Conference, Monterey</i> (1994); Society for Information Display, San Jose, CA; pp. 213-216

*Examiner: <i>Murphy</i>	Date Considered: <i>Jun. 14, 2005</i>
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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WPC	C8	SCHADT, M., et al; "Photo-Generation of Linearly Polymerized Liquid Crystal Aligning Layers Comprising Novel, Integrated Optically Patterned Retarders and Color Filters", <i>Jpn. Journal of Applied Physics</i> (1995); Vol. 34; pp. 3240-3249
WPC	C9	SCHADT, M., et al; "Optical Patterning of Multi-Domain Liquid-Crystal Displays with Wide Viewing Angles", <i>Nature</i> (16 May 1996); Vol. 381; pp. 212-215
WPC	C10	KITZEROW, H.-S.; "Polymer-Dispersed and Polymer-Stabilized Chiral Liquid Crystals", <i>Liquid Crystals in Complex Geometries: Formed Polymer and Porous Networks</i> (1996); Ed. G.P. Crawford & S. Zumer; Taylor & Francis; pp. 187-219
WPC	C11	ICHIMURA, K., et al; "Photoreactivity of Polymers with Regioisomeric Cinnamate Side Chains and Their Ability to Regulate Liquid Crystal Alignment", <i>Macromolecules</i> (1997); Vol. 30; American Chemical Society; pp. 903-911
WPC	C12	REZNIKOV, Y., et al; "Photoalignment of Liquid Crystals by Liquid Crystals", <i>Physical Review Letters</i> (28 Feb. 2000); Vol. 84, No. 9; American Physical Society; pp. 1930-1933
WPC	C13	KURIHARA, R., et al; "P-68: Fabrication of Defect Free FLCDs Using Photo-Alignment and Their Performance Characteristics", <i>SID 00 Digest</i> (2000); ISSN0000-0966X/00/3101-0807; pp. 807-809
WPC	C14	LEE, B. and CLARK, N.A.; "Alignment of Liquid Crystals with Patterned Isotropic Surfaces", <i>Science</i> (30 March 2001); Vol. 291; pp. 2576-2580
WPC	C15	IBN-ELHAJ, M. and SCHADT, M.; "Optical Polymer Thin Films with Isotropic and Anisotropic Nano-Corrugated Surface Topologies", <i>Nature</i> (12 April 2001); Vol. 410; pp. 796-799
WPC	C16	HASEGAWA, M.; "Fabrication of Freely Patterned Aligned Nematic Liquid Crystal Cells Using UV Laser Scanning Photoalignment", <i>Jpn. Journal of Applied Physics</i> (2002); Vol. 41; pp. L201-L202
	C17	

*Examiner: *Gregory P.*

Date Considered: Jun. 14, 2005

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